

Creep Phenomena in Structural Components, by
J. F. Besseling.

DUTCH, per, Ingenieur, Vol 75, 3 May 1963,

pp 51-57.

(TMS. 1302)

CEGB 4127

313,328

Sci - Materials

Nov 66

Symposium Crystallization. III.
Crystallization of Naphthalene and Anthracene
in the Brush-Crystallizer, by P. J. C.
Kassenbrood, 10 pp.
DUTCH, rev. de l'ingenieur, Vol 75,
No 49, 1963, pp CH85-CH91,

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Sci
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TT-65-13420

Field 7A

Kosters, W. C. G.
THE EXTRACTION OF AROMATIC HYDROCARBONS,
ESPECIALLY WITH SULFOLANES. 10p, 6 refs.
Order from SLA: \$1.10 as TT-65-13420

Trans. of de Ingenieur (Netherlands) v76 n13 p58-62 1961.

MR 655

Determination of Temperature Distribution
in Solidifying Steel Ingots by Means of
Numerical Computation, by C. L. Bijl,
F. Hollander.

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1964, pp 65-73.

BISI 4305

GB 41/4305-1509.)

Sci/RRM

Dec 65

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Study of the Stopping Power of Various
Filters, by Guy Madelaine,
FRENCH, rpt, Ingenieur CNAM, 1964.
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AEC - NP-Tr-1287

Sci-Engr
Dec 65

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Investigation of Turbulent Flow in Tubes of Non-Circular Cross-Section, by J. Nikuradse.

GERMAN, per, Ingen Arch, Vol I, 1930, pp 306-332.

TPA3/TIB/T 4288

Scientific - Engineering

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Effect of Curved Surfaces on Turbulent Boundary
Layers, by H. Wilcken.

GERMAN, per, Ingenieur-Archiv, Vol 1, No 4,
1930, pp 357-376.

NASA TT F-11,421

Sci/Phys
Mar 68

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The Stresses in a Bellows Joint, by K. Stange.

GERMAN, per, Ingen Arch, No 2, 1931, pp 47-92.

TI.L. T-4644

Sci - Engineering

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APL 302-T-358

H. Kadén

*Curling of an unstable discontinuity surface. Ph.D.
Thesis. 51pp.*

*GRMML, per, Ing. - Arch. Vol 2, 1951, pp 140-163.
NASA TT F 14,230*

July 75

Göttingen, Betz.

DIAGRAMS FOR THE CALCULATION OF A SERIES
OF BLADES. [1963] [23] p. 5 refs.

Order from SLA \$2.60

63-14482

Trans. of Ingenieur-Archiv (Germany) 1931, v. 2,
p. 359-371.

DESCRIPTORS: *Turbine blades, *Vortices, *Fluid
flow, Turbulence, Velocity, Conformal mapping,
*Mechanical engineering, Design, Numerical analysis.

The field of a vortex series in which one vortex is
omitted is represented in the form of curves. Further,
an example of the application of these curves is given
for the determination of blade series, where different
methods are used, depending on the condition and the
degree of accuracy required. (Author)

(Engineering--Mechanical, TT, v. 10, no. 4)

63-14482

I. Göttingen, B.

Office of Technical Services

Vane Grids for the Deflection of Fluid Flows With
Small Energy Losses, by G. Kreber

GERMAN, N.A.C.A., Technical Memoranda No 722,
Ing Archiv, Vol III, No 6, 1932.

TPA3/TIB T.2042

Scientific - Engineering
CTS/DEX

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Some Examples of Electrical Determination of Stress,
by C. B. Biezeno.

GERMAN, per, Ing Arch, Vol IV, 1933, pp 384-393.

INSDOC-T2179

Sci
Apr 59

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The Effect of Rounding-Off and Originally Sharp
Leading Edge on the Resistance of Wings, by E.
Wolff, 11 pp.

GERMAN, per, Ing Arch, Vol IV, No 6, Dec 1933,
pp 537-583.

SLA 58-497

Sci

Aug 59

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On an Extension of Prandtl's Diaphragm Analogy,
by W. Bauersfeld

GERMAN, ~~Ger.~~ Ing. Arch., Vol V, No 1, 1934,
pp 69-82.

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Scientific - Engineering

Jul CTS/DEX

Price 0.25

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Influence of Type and Dimensions of Pressure Hole on
the Recorded Static Pressure, by A. Myadru

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TPA3/TID T.430

Scientific - Engineering

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Vibration Frequencies and Vibration Modes of
Curved beams, by F. W. Waltking, 36 pp.

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GERMAN, per, Ingenieur - Archiv, 5, 1934,
pp. 429-449.

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Deflection of a Circular Liquid Jet on a Plane
Plate normal to the Stream, by W. Schach,
19 pp.

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The Principle of the Potential Theory Applied
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pp 47-80.

NLL Ref:5809.95 (trans 2345)

Sci-Phys
Feb 70

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Temperature Variation and Temperature Stresses in
Plate and Shell-shaped Bodies, by K. Marguerre,
23 pp.

GERMAN, per, Ingenieur- Archiv, Vol VIII, 1937,
(NP-2419)

S.L.A. Tr No 387/1955

Sci - Engineering
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Contribution to the Theory of the Spherical
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Jakobsen.

GERMAN, per, Ingenieur Archiv, Vol VIII,
1937, pp 275-294.

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May 62

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Natural Vibrations of the Conical Shell, by
K. Federhofer.

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NASA TT F-8261

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US GOV'T USE ONLY

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Flow Behind a Single Roughness Element, by W.
Jacobs.

GERMAN, per. Ing. Arch., Vol 9, 1938, pp 343-
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Eigenvalue Problems, by R. Grammel, 17 pp.
GERMAN, per, Ingenieur-Archiv, Vol X,
1939, pp 35-46.
*Dept of Navy/DTMB T-335

Sci - Math Sci
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Approximate Calculation of Characteristic Numbers,
by W. Meyer Zur Capellen

GERMAN, paper, Ing Archiv, Vol X, No 3, Jun 1939,
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TPA3/TID T.986

Scientific - Mathematics CTS/DEX

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Formation of a Vortex at the Edge of a Plate,
by Leo Anton, 36 pp.

GERMAN, per, Ingenieur-Archiv, Vol X, 1939,
pp 411-427.

NACA TM 1398

Sci - Engineering

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May 1956

J. G. von Edler

GERMAN, Ingenieur-Archiv, Vol 11, 1940, pp 295-314
**NASA TT F 14,653*

jan 73

An Elementary Theory ~~ON~~ On Fatigue Strength, ~~BY~~
By Th. Poschl, 9 pp.

GERMAN, per, Ingenieur-Archiv, Vol XII, No 2,
1941, pp 71-76.

SLA 61-18756

Sci

Mar 62

Vol VII, No 3

189, 676

Indefinite Integrals Containing Products of
Cylindrical Functions, by R. Straubel

GERMAN, per, Ing Archiv, Vol XIII, No 1, Feb
1942, pp 14-20.

TPA3/TIB T.2040

Scientific - Mathematics CTS/DEX

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The Accuracy of Various Methods of Integration of
Ordinary Differential Equations of the First and
Second Orders, by L. Collatz, R. Zermühl

GERMAN, per, Ing Archiv, Vol XIII, No 1, Feb 1942,
pp 34-36.

TPA3/TIB T.2043

Scientific - Mathematics GTS/DEK

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The Method of Characteristics Applied to the
One-Dimensional Unsteady Flow, by R. Sauer,
26 pp Gas

GERMAN, per, Ingenieur Archiv, Vol VIII, No 2, Apr
1942, pp 79-89.

AMC Tr

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Also Available @ TPA3/TIB T.2021

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CTS/DEX

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The Process of Ritz & Trefftz in the Reissner Theory
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GERMAN, per, Ingenieur-Archiv, Vol XIII, No 4, 1942?,
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*JPRS for Army Rocket & Guided
Missile Agency

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31 May 61

Non-Steady, Spherically-Symmetrical Gas Motion
and Non-Steady Gas Flow in Nozzles and K
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GERMAN, per, Ing Archiv, Vol XIV, No 1, 1943,
pp 21-29.

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Scientific - Engineering
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The Infinite, Elastically Supported Beam Under
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J. Doerr. 45 pp.
GERMAN, per, Ing. -Arch., Vol 14, 1943,
pp 167-192.
NASA TT-F-13569

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Integrating the Reynolds Equation for Spindle
Bearing of Finite Width, by G. Vogelpohl.

GERMAN, per, Ingen Archiv, Vol XIV, 1943, pp
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T.I.L. T. 4578.

Sci - Engineering, *Mathematics*
Jun 1956 *35,732*

Contribution to the Calculation of Hyperbolic
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GERMAN, per, Ingenieur-Archiv, Vol XVI,
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Aug 62

211, 244

TT-65-12236

Field 13M

Ohlig, R.
CONCENTRATED LOADING ON RECTANGULAR SLABS
SUPPORTED ON TWO AND FOUR SIDES. 33p, 24refs.
Order from SLA: \$3.60 as TT-65-12236

Trans. of ~~Ingenieur-Archiv~~ (West Germany) v16 p51-71
1947.

I, Ohlig, R.

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Buckling Problems in the Anisotropic Rectangular
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FOR OFFICIAL USE ONLY FOR EXTERNAL USE WITHIN
THE DEPARTMENT OF DEFENSE ONLY

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pp 111-120. P100376567

FTD-HT-23-630-67

hang n/c b. 2571 P5000853 68-V unclassified
21 pp

Sci-Mech

Jan 68

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Instrument for Measuring the Wall Shearing Stresses
of Turbulent Boundary Layers, by H. Ludweig

GERMAN, per, Ingen-Archiv, No 3, Vol XVII, 1949.

S.L.A. Tr Pool

Scientific - Aeronautics

CTS/DEX

Also Aero Res Council 12,991

FN.1421

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Statics of the Pneumatic Tyre, by J. Rotta.

GERMAN, per, Ingenieur Archiv, Vol XVII, 1949,
pp 129-141.

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Sci - Engineering
Apr 57 CTS/dax

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Investigations of the Wall Shearing
Stress in Turbulent Friction Layers, by
H. Ludwig, W. Tillmann.

GERMAN, per, Ingenieur Archiv, Vol XVII,
No 4, 1949, pp 288-299.

AENE, Harwell
Tr-1677

Sci - Engr
Sep 62

Mettler, E.
GENERAL THEORY OF THE STABILITY OF
FORCED OSCILLATIONS OF ELASTIC BODIES
(Allgemeine Theorie der Stabilität Erzwungener
Schwingungen Elastischer Körper). [1962] 75p.
17 refs.
Order from SLA \$7.60 62-18058

Trans. of Ingenieur-Archiv (Germany) 1949, v. 17,
p. 415-449.

DESCRIPTORS: *Elasticity, Theory, *Oscillation,
Stability, equations of motion, Integration, Series.

The stability of elastic motion is analyzed by intro-
ducing into the variational equation a Ritz expression
with time-dependent coefficients and then setting up
the resulting differential equations for the coefficients.

Classified by: (S, M, G, R, D, b)

62-18058

I. Mettler, E.

Office of Technical Services

A Non-Linear Law of Elasticity, by H. Kauderer,
GERMAN, per, Ing Arch, Vol XVII, 1949, pp 450-
480.

CISRO-2982

Sci

Aug 58

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Velocity Distribution in Turbulent Flow in
Proximity to Walls, by J. Rotta.

GERMAN, per, Ingen. Arch, Vol XVIII, 1950,
pp 277-280.

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T 406 Ot/1217

EEur - Germany
Sci - Engineering

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Air Admixture to Exhaust Jets, by E. Sanger

GERMAN, ENG, Ingen Arch, Vol XVIII, No 5, 1950,
pp 310-323.

NACA Tr 1357

Scientific - Aeronautics
CTB/DEX

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Theoretical Calculation of Flow Losses in a
Plane Blade Lattice, by H. Schlichting, N.
Schloz.

GERMAN, per, Ingen-Archiv, Vol XIX, No 1,
1951, pp 42-65.

T.I.L. T.4539

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Sci - Engineering, Physics

Jun 1956

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Order from SLA \$3.60

62-18393

Trans. of [Ingenieur-Archiv] (Germany) 1951, v. 19, p. 208-227.

DESCRIPTORS: Supersonics, *Supersonic flow, *Aerodynamic configurations, Boundary layer transition, *Shock waves, Compressive properties, Separation, Velocity, Distribution, Compressible flow.

(Mechanics--Aerodynamics, TT, v. 9, no. 10)

62-18393

1. Title: Stoss

1. Melkus, H.

Office of Technical Services

Turbulent Flow in Convergent Channels, by W.
Szablewski, 18 pp.

GERMAN, per, Ingenieur-Archiv, Vol XX, No 1, 1952,
pp 37-45.

NACA N-14408

Sci - Engineering

Aug 1956

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Melan, E.

THERMAL STRESSES IN A SHEET CAUSED BY A
MOVING HEAT SOURCE (Wärmespannungen in einer
Scheibe infolge einer Wandernden Wärmequelle). [1963]

6p 4refs

Order from SLA \$1.10

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Trans. of Ingenieur-Archiv (Germany) 1952, v. 20,
p. 46-48.

Another trans. is available from SLA as TT-58-927

DESCRIPTORS: Thermal stresses, Sheets, Steel, Heat,
Partial differential equations, Numerical analysis.

(Physics--Thermodynamics, TT, v. 11, no. 10)

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L Melan, E.

Office of Technical Services

Szablewski, W.
THEORY OF TURBULENT FLOW OF GASES WITH
EXTREMELY VARIABLE DENSITY (Zur Theorie der
Turbulenten Strömung von Gasen Stark Veränderlicher
Dichte) tr. by Hugo Gabriel. [1962] [15]p. (foreign
text included) 8 refs.
Order from SLA \$1.60

62-16111

Trans. of Ingenieur-Archiv (Germany) 1952, v. 20,
no. 2, p. 67-72.

DESCRIPTORS: *Gases, Gas flow, Turbulence, *Tur-
bulent flow, Density, Jet mixing flow, Statistical proc-
esses, Partial differential equations, Theory.

The statistical approach after O. Reynolds is general-
ized to apply also to fields with extremely variable
density. On the basis of Prandtl's concept of the mix-
ing path a system of equation is then established for
the computation of the mixing processes. (Author)
(Physics, TT, v. 8, no. 5)

62-16111

1. Szablewski, W.

Office of Technical Services

Szablewski, W.
TURBULENT MIXING BETWEEN PLANE AIR-JETS
WITH NEARLY EQUAL VELOCITIES AND LARGE
DIFFERENCES IN TEMPERATURE (Turbulente Ver-
mischung Zweier Ebener Luftstrahle von Fast Gleicher
Geschwindigkeit und Stark Unterschiedlicher Tempera-
tur). [1962] [22]p. (foreign text included).
Order from SLA \$2.60

62-16165

Trans. of Ingenieur-Archiv (Germany) 1952, v. 20
[no. 2] p. 73-80.

DESCRIPTORS: Gases, *Gas flow, Jets, *Jet mixing
flow, Turbulence, *Turbulent flow, Velocity, Tempera-
ture.

The fields of velocity and temperature which are cre-
ated by turbulent mixing between plane air-jets with
nearly equal velocities and a large temperature dif-
(Physics, TT, v. 8, no. 5) (over)

62-16165

1. Szablewski, W.

mu/T-493

Office of Technical Services

The Influence of the Shape of the Cross-Section on the
Behaviour of Bourdon Springs, by W. Wuest.

GERMAN, per, Ingenieur-Archiv, Vol 20, 1952, pp 116-
125.

NTC-71-10421-20K

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Grammel, G.
THE STABILITY OF FORCED VIBRATIONS IN AN
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DAMPING (Zur Stabilität Erzwungener Schwingungen
Elastischer Körper mit Geschwindigkeitsproportionaler
Dämpfung). [1963] [23p] 6refs
Order from SLA \$2.60

TT-64-10014

Partial trans. (p. 170-179) of Ingenieur-Archiv
(West Germany) 1952 [v. 20] no. 3 [p. 170-183].

DESCRIPTORS: *Vibration, *Stability, Elasticity,
Damping, Equations of motion, Partial differential
equations, Calculus of variations.

(Mechanics, TT, v. 11, no. 3)

TT-64-10014

I. Gramme, G.

Office of Technical Services

A Method of Quadrature for Calculation of the Laminar and Turbulent Boundary Layer in Case of Plane and Rotationally Symmetrical Flow, by E. Truckenbrodt, 40 pp.

GERMAN, per, Ingenieur-Archiv, Vol XX, No 4, 1952, p 16-228.

NACA TM 1379

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Sci - Aeronautics

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I. A Few Remarks on the Sealing of Rotating and
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AEC Tr-5109

Sci - Engr
Jul 62
List 40

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Approximate Computation and Stability Behavior
of Laminar Boundary Layers With Suction Through
Single Slots, by W. Wuest, 32 pp.

GERMAN, per, Ingenieur Archiv, Vol XXI, 1953,
p 20.

Sci - Aeronautics
Apr 1957

SIA Tr 1763

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June 1957

Coefficient Conditions for Control of the Degree
of Damping in Processes of Adjustment (Generalized
Hurwitz Conditions), by O. Schmutz, 19 pp.

GERMAN, per, Ing Arch, Vol XXI, 1953, p 33.

SLA 3134

May 58

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Determination of the Lines of Equal
Principal-Stress Sums Through Interferences
of Uniform Thickness, by A. Dose,
R. Landwehr.
GERMAN, per, Ingenieur-Archiv, Vol XXI,
No 2, 1953, pp 73-86. 9697325
DDC RSIC 386

Sci-M/M
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Approximate Computation and Stability Behavior of
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Single Slots, by W. Wusst, 32 pp.

GERMAN, per, Ing Arch, Vol XXI, No 2, 1953, pp 90-.

SLA Tr 3095

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Laminar Flow About a Rotating Body of Revolution
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GERMAN, per, Ingenieur-Archiv, Vol XXI, No 4,
1953, pp 227-244.

NACA TM 1415

Sci - Engineering

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May 1956

Directional Stability of Towed Airplanes, by W.
Rudolf Sohmo.

GERMAN, per, Ingenieur-Archiv, Vol. XXI, No 4, 1953,
pp 245-265.

WACA TM 1401

Scientific - Aeronautics

Feb 56

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The Bending of Single Loads of Plates With
Rectangular Areas of Application, by S.
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GERMAN, per, Ingen-Arch, Vol XXI, No 5/6, 1953,
pp 331-338.

T.I.L. T.4497 35,693

Sci - Engineering, Physics-

Jun 1956

Modern Galvanometers, by W. J. Reichert, 9 pp.

GERMAN, per, Ingenieur Archiv, No 5, 1953, pp E20-E23.

SLA Tr 57-787

Sci - Electronics

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Potential Flow Through Radial Cascades, by W. H.
Isay. UNCLASSIFIED

GERMAN. per, Ingenieur-Archiv, Vol XXII, 1954,
pp 203-210.

Navy 2532/DShips 671

Sci - ~~Engineering~~ Engr
Jun 60

118,703

Contribution to the Problem of Thermal Stresses
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GERMAN, per, Ing-Archiv, 1955, Vol XXIX, No 3,

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Sci
Mar 60
Vol 2, No 12

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Annular Rings With Local Deformation Under
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24 pp.

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1955, pp 36-50. 9068230

AEC IG-INF-SER-845

Sci - Engr
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Ideally Plastic Isotropic and Orthotropic Plates
With Full Utilization of All Elements, by H.
Cremer. UNCLASSIFIED

GERMAN, per, Ingen Arch, Vol XXIII, No 3, 1955,
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Sci - Engr
Oct 58

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Asymptotic Suction Boundary Layers
For Cylindrical Bodies in Longitudinal
Flow, by W. Wuest, GOVERNMENT USE ONLY
GERMAN, per, Ingenieur Archiv, Vol XXIII,
1955, pp 198-208. P200072167
RSIC-626

Sci-Phys
Mar 67

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On The Treatment of the Flow Through a Voith-Schneider
Propeller Having a Small Advance Coefficient, by
W. H. Isay. UNCLASSIFIED

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*Navy 2447/BuShips 655C

Sci - Physics
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HEINRICH, G.

INSDOC-T1802. Hydromechanical bases for the working of stationary and instationary subterranean currents. Ing. Arch., 24, p.81-84, 1956.

Theory of High-Pressure Tabular Springs, by
W. Muset. UNCL

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(no number given)

Sci - Engr
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Calculation of the Flow Through ~~7-10~~-Schneider
Propellers, by W. H. Isay. UNCLASSIFIED

GERMAN, per, Ingenieur-Archiv, Vol XXIV, 1956,
pp 148-170.

Navy 2534/DaShips 672

Sci - Engr
Jun 60

118,705

REQ 10 CHECK 8-7-5 3870-1302

English title: unk

Ray, A. Z.

German: Ingenieur-Archiv (Gesellschaft für AAZ
vol 24, 1956, pgs. 171-181

Rotta, J.
EXPERIMENTAL CONTRIBUTION TO THE PERFORM-
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[49]p. 13 refs.
Order from SLA \$4.60

63-14484

Trans. of Ingenieur-Archiv (West Germany) 1956,
v. 24, no. 4, p. 258-281.

DESCRIPTORS: *Turbulence, *Pipes, *Fluid flow,
Pressure, Velocity, *Reynolds number, Boundary layer
transition, Test equipment, Tests.

(Mechanics--Hydraulics, TT, v. 10, no. 3)

63-14484

I. Rotta, J.

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Thermodynamics and Rheological Problems, by
H. Ziegler, 28 pp.

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Vol XXV, No 1, 1957, pp ~~XXXX~~ 58-~~67~~70.

SLA 60-18392

Sci
Vol IV, No 11
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On the Velocity Distribution in Vortices,
by A. Timme.

GOVERNMENT USE ONLY

GERMAN, per, Ingenieur-Archiv, Vol 25,
1957, pp 205-225.

Dept of Navy/NRL Tr 1174

Sci-Elec

Aug 69

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Limits of Wing Lift, by H. B. Helmbold. 13 pp.

GOVERNMENT USE ONLY

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NASA TT F 13247

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Nonlinear Vibrations With Two Degrees of Freedom,
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GERMAN, per, Ing Arch, Vol XXV, 1957, pp 292-304;
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RAE 863

Sci - Engr
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The Voith-Schneider Propeller in the Wake of a
Ship's Hull. UNCLASSIFIED

GERMAN, per, Ingenieur-Archiv, Vol XXV, 1957,
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Sci - Engr
Jun 60

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The Distribution of Stress in the Skin of a
Spherical Container With Tangential Stressing
by Means of Equidistant Supports in any
Parallel According to the ~~KNE~~ Diaphragm
Theory, by F. J. Mainzer.

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Sci - Phys
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Conclusions of the Theory of the Voith-Schneider
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GERMAN, per, Ingenieur-Archiv, Vol XXVI, 1958,
pp 220-232.

Navy 2547/BuShips 686

118, 716

Sci - Engr
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Contribution to the Calculation of Kaplan Turbines,
by J. Raabe.

GERMAN, per, Ingenieur-Archiv, Vol XXVII, No 1, 1959,
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Sci
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Effect of Small Disturbances on Steering
Stability of Motor Vehicles Equipped With
Pneumatic Tires, by G. Mittenleimer, 53 pp.

GERMAN, per, Ingenieur-Archiv, Vol XXVII,
No 2, 1959, pp 88-103.

SLA 60-14517

Sci
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OES, Vol III, No 12

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On the Theory of Rolling Friction, by H. von
Bufler, 50 pp.

GERMAN, per, Ingenieur-Archiv, Vol XXVII, No 3,
1959, pp 137-152.

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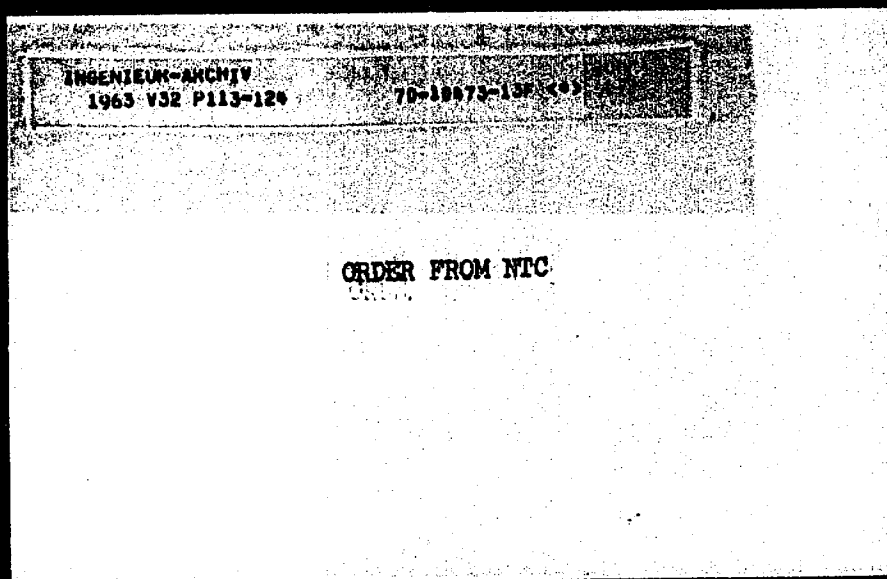
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